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Docket No.: A8319.0035/P035  
(PATENT)

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

In re Patent Application of:  
Kazuhide Tanaka et al.

Application No.: 10/782,790

Confirmation No.: 5538

Filed: February 23, 2004

Art Unit: N/A

For: MgB<sub>2</sub> COMPOUND SHEATH  
SUPERCONDUCTING WIRE AND  
MANUFACTURING METHOD OF THE  
SAME

Examiner: Not Yet Assigned

**INFORMATION DISCLOSURE STATEMENT (IDS)**

MS Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

Pursuant to 37 CFR 1.56, 1.97 and 1.98, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO/SB/08. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is filed before the mailing date of a first Office Action on the merits as far as is known to the undersigned (37 CFR 1.97(b)(3)).

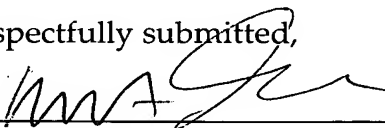
Enclosed is a European Search Report which issued in a corresponding application EP-04-003813. A copy of each foreign reference on the PTO/SB/08 is attached.

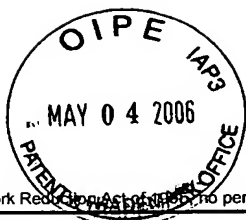
In accordance with 37 CFR 1.97(g), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 CFR 1.56(a) exists. In accordance with 37 CFR 1.97(h), the filing of this Information Disclosure statement shall not be construed to be an admission that any patent, publication or other information referred to therein is "prior art" for this invention unless specifically designated as such.

It is submitted that the Information Disclosure Statement is in compliance with 37 CFR 1.98 and the Examiner is respectfully requested to consider the listed references.

The Director is hereby authorized to charge any deficiency in the fees filed, asserted to be filed or which should have been filed herewith (or with any paper hereafter filed in this application by this firm) to our Deposit Account No. 04-1073, under Order No. A8319.0035/P035. A duplicate copy of this paper is enclosed.

Dated: May 4, 2006

Respectfully submitted,  
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PTO/SB/08a/b (07-05)

Approved for use through 07/31/2006. OMB 0651-0031

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<b>Substitute for form 1449A/B/PTO</b>  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (Use as many sheets as necessary)				<b>Complete if Known</b>	
				Application Number	10/782,790-Conf. #5538
				Filing Date	February 23, 2004
				First Named Inventor	Kazuhide Tanaka
				Art Unit	N/A
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	A8319.0035/P035

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code <sup>2</sup> (if known)			
	AA	US-2003/0036482 A1	02-20-2003	Cornelis L. Thieme et al	
	AB	US-2002/0198111 A1	12-26-2002	Michael J. Tomsic	
	AC	US-2002/0173428 A1	11-21-2002	Cornelis L. Thieme et al	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>6</sup>
		Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)				

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
	CA	B. A. GLOWACKI et al., "Superconductivity of powder-in-tube MgB <sub>2</sub> wires", Institute of Physics Publishing, Techno House, April 2001, Bristol, GB, vol. 14, no. 4, pp 193-199		
	CB	S. JIN et al., "High critical currents in iron-clad superconducting MgB <sub>2</sub> wires", Nature, Nature Publishing Group, London, GB, May 31, 2001, vol. 411, no. 6837 pp. 563-565		
	CC	B.A. GLOWACKI and M. MAJOROS, "MgB <sub>2</sub> conductors for dc and ac applications", Physica C August 2002 Elsevier Science B.V., vol. 372-376 pp 1235-1240		
	CD	HONGLI SUO et al., "Large transport critical currents in dense Fe-and Ni-clad MgB <sub>2</sub> superconducting tapes", Applied Physics Letters, American Institute of Physics, November 5, 2001, Melville, NY, vol. 79, No. 19, pp 3116-3118		
	CE	H. KUMAKURA et al., "Critical current densities and irreversibility fields of MgB <sub>2</sub> bulks", Physica C, North-Holland Publishing, 2001, Amsterdam, NL, vol. 363, no. 3, Elsevier Science B.V., pp. 179-183		
	CF	W. GOLDDACKER and S.I. SCHLACHTER, "Influence of mechanical reinforcement of MgB <sub>2</sub> wires on the superconducting properties", Physica C, Elsevier Science B.V., Netherlands , October 1, 2002, 889-893, vol. 378-381,		
	CG	W. GOLDDACKER, et al., "Mechanically Reinforced Mgb <sub>2</sub> Wires And Tapes With High Transport Currents", April 29, 2002, <a href="http://arxiv.org/ftp/cond-mat/papers/0204/0204599.pdf">http://arxiv.org/ftp/cond-mat/papers/0204/0204599.pdf</a> , Forschungszentrum Karlsruhe, Institute fuer Technische Physik,		
	CH	GUN YONG SUNG, SANG HYEON KIM JUNHO KIM,. "Microstructure of the highly dense MgB <sub>2</sub> superconductor by transmission electron microscope", <a href="http://arxiv.org/ftp/cond-mat/papers/0204/0204599.pdf">http://arxiv.org/ftp/cond-mat/papers/0204/0204599.pdf</a> , March 3, 2001,		

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.